

Abstract

Hemofiltration systems and methods circulate blood from an individual through a hemofilter to remove waste and to return blood and replacement fluid to the individual after removal of waste. The systems and methods maintain sterile extracorporeal processing conditions during and between therapy sessions. For example, the systems and methods include a waste discharge path in the extracorporeal circuit to convey waste fluid to a waste receiving unit. The waste discharge path includes an air break. The air break prevents back flow of waste contaminants into the extracorporeal circuit from the waste receiving unit. As another example, the systems and methods include a replacement fluid path in the extracorporeal circuit to convey replacement fluid from a source to the extracorporeal circuit. The replacement fluid path includes a sterilizing filter to avoid contamination of the extracorporeal circuit.